IN THE CLAIMS:

- 1-9. (Cancelled)
- 10. (Currently Amended) An RF passive circuit comprising:
 - a semiconductor substrate;
- a via-hole which is formed by applying a metal film on an inside wall of a hole provided through the semiconductor substrate;
- a dielectric layer which is formed on a main surface of the semiconductor substrate so as to cover the metal film; and
- an inductor which is a spirally-formed metal layer formed on the dielectric layer, which forms a static capacity where one part thereof faces the metal film of the via-hole, and the via-hole is formed at the center of the inductor.
- 11. (Currently Amended) An RF choke used in at least one of a matching circuit and a bias feeding circuit, both circuits being included in an RF amplifier, the RF choke comprising:
- a semiconductor substrate where at least one of the matching circuit and the bias feeding circuit is incorporated;
- a via-hole which is formed by applying a metal film on an inside wall of a hole provided through the semiconductor substrate;
- a dielectric layer which is formed on a main surface of the semiconductor substrate so as to cover the metal film; and
- an inductor which is a spirally-formed metal layer formed on the dielectric layer, which forms a static capacity where one part thereof faces the metal film of the via-hole, and the via-hole is formed at the center of the spirally-formed metal layer.

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12. - 26. (Cancelled)

- 27. (Previously Presented) The RF passive circuit of Claim 10 wherein the inductor is connected to an input matching parallel capacitor having a first terminal on one side of the dielectric layer and a second terminal on the other side of the dielectric layer.
- 28. (Previously Presented) The RF passive circuit of Claim 27 herein the first and second terminals contain gold.
- 29. (Previously Presented) The RF passive circuit of Claim 28 wherein the dielectric layer has a permittivity of at least 100.
- 30. (Previously Presented) The RF passive circuit of Claim 28 wherein the inductor contains gold.
 - 31. (New) A high frequency RF circuit, comprising:

an RF amplifier having a matching circuit and a bias feeding circuit with an RF choke in at least one of the matching circuit and the bias feeding circuit, the RF choke including,

a semiconductor substrate where at least one of the matching circuit and the bias feeding circuit is incorporated;

a via-hole which is formed by applying a metal film on an inside wall of a hole provided through the semiconductor substrate;

a dielectric layer which is formed on a main surface of the semiconductor substrate so as to cover the metal film; and

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an inductor which is a spirally-formed metal layer formed on the dielectric layer, which forms a static capacity where one part thereof faces the metal film of the via-hole, and the via-hole is aligned with and formed concentric with the center of the spirally-formed metal layer.

32. (New) The high frequency RF circuit of Claim 31 including an MIM capacitor forming an input matching capacitor aligned with the center of the spirally-formed metal layer and between the inductor and the via-hole.

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